

BIOTECHNOLOGY
SYSTEMS
BRANCH



0590
0906

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/054,399
Source: OIPE
Date Processed by STIC: 9-16-02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Does Not Comply
Corrected Diskette Needed



OIIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/054,399

DATE: 09/16/2002
TIME: 10:54:29

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Output Set: N:\CRF4\09162002\J054399.raw

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3      Nern, Peter MA
5 <120> TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND PROTEIN SEQUENCES
7 <130> FILE REFERENCE: DY0U13.1A2CP1
9 <140> CURRENT APPLICATION NUMBER: 10/054399
C--> 10 <141> CURRENT FILING DATE: 2002-08-30
12 <150> PRIOR APPLICATION NUMBER: 09/168,474
13 <151> PRIOR FILING DATE: 1998-10-08
15 <150> PRIOR APPLICATION NUMBER: 08/951,141
16 <151> PRIOR FILING DATE: 1997-10-15
18 <150> PRIOR APPLICATION NUMBER: 09/529,106
19 <151> PRIOR FILING DATE: 2000-04-07
21 <150> PRIOR APPLICATION NUMBER: US 09/732,180
22 <151> PRIOR FILING DATE: 2000-12-07
24 <150> PRIOR APPLICATION NUMBER: US 60/169,699
25 <151> PRIOR FILING DATE: 1999-12-07
27 <150> PRIOR APPLICATION NUMBER: PCT/GB98/03033
28 <151> PRIOR FILING DATE: 1998-10-08
30 <150> PRIOR APPLICATION NUMBER: 9812793.9
31 <151> PRIOR FILING DATE: 1998-06-12
33 <150> PRIOR APPLICATION NUMBER: 9721357.3
34 <151> PRIOR FILING DATE: 1997-10-08
36 <150> PRIOR APPLICATION NUMBER: 9721358.1
37 <151> PRIOR FILING DATE: 1997-10-08
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54 ttgcatatta acgatgagga gcttttcaact atatccgacg tttttgccaa ctgcacgtcc 180
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59 <212> TYPE: PRT
60 <213> ORGANISM: Saccharomyces cerevisiae
62 <220> FEATURE:
63 <223> OTHER INFORMATION:

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/054,399

DATE: 09/16/2002
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Input Set : A:\pto_ms.txt
Output Set: N:\CRF4\09162002\J054399.raw

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

65 <400> SEQUENCE: 2
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67 1 5 10 15
69 Val Ile Ala Ser Asp Asp Leu Lys Val Cys Lys Lys Ser Ile Tyr Asp
70 20 25 30
72 Phe Ile Leu Gly Cys Lys Lys His Phe Ala Phe Asn Asp Glu Glu Leu
73 35 40 45
75 Phe Thr Ile Ser Asp Val Phe Ala Asn Ser Thr Ser Gln Leu Val Lys
76 50 55 60
78 Val Leu Glu Val Val Glu Thr Leu Met Asn Ser Ser
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88 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleic acid
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93 tttgcattta acgatgagga gcttttcact atatccgacg tttttgcaa ctgcagctcc 180
94 cagctggtca aagtgtctaga agtagtagaa acgctaata attccagc 228
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106 1 5 10 15
108 Val Ile Ala Phe Asp Asp Leu Lys Val Cys Lys Lys Ser Ile Tyr Asp
109 20 25 30
111 Phe Ile Leu Gly Cys Lys Lys His Phe Ala Phe Asn Asp Glu Glu Leu
112 35 40 45
114 Phe Thr Ile Ser Asp Val Phe Ala Asn Ser Thr Ser Gln Leu Val Lys
115 50 55 60
117 Val Leu Glu Val Val Glu Thr Leu Met Asn Ser Ser
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132 tttgcattta acgatgagga gcttttcact atatccgacg tttttgcaa ctgcagctcc 180

need to explain the
Source of the genetic
material

RAW SEQUENCE LISTING

DATE: 09/16/2002

PATENT APPLICATION: US/10/054,399

TIME: 10:54:29

Input Set : A:\pto_ms.txt

Output Set: N:\CRF4\09162002\J054399.raw

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145 1 5 10 15
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148 20 25 30
150 Phe Ile Leu Gly Cys Lys Lys His Phe Ala Phe Asn Asp Glu Glu Leu
151 35 40 45
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171 ttgtcattta acgatgagga gcttttcaact ataccgacg tttttgccaa ctgcagctcc 180
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184 1 5 10 15
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187 20 25 30
189 Phe Ile Leu Gly Cys Lys Lys His Phe Ala Phe Asn Asp Glu Glu Leu
190 35 40 45
192 Phe Thr Ile Ser Asp Val Phe Ala Asn Ser Thr Ser Gln Leu Val Lys
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195 Val Leu Glu Val Val Glu Thr Leu Met Asn Ser Ser
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200 <211> LENGTH: 392
201 <212> TYPE: PRT

see
page 2

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/054,399

DATE: 09/16/2002
TIME: 10:54:29

Input Set : A:\pto_ms.txt
Output Set: N:\CRF4\09162002\J054399.raw

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204 <220> FEATURE:
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211	Leu	Glu	Ile	Leu	Asp	Lys	Tyr	Arg	Gln	Gln	Leu	Leu	Asp	Ser	Asn	Leu
212				20					25					30		
214	Ile	Thr	Ser	Glu	Glu	Leu	Tyr	Met	Leu	Phe	Pro	Asn	Leu	Gly	Asp	Ala
215			35					40					45			
217	Ile	Asp	Phe	Gln	Arg	Arg	Phe	Leu	Ile	Ser	Leu	Glu	Ile	Asn	Ala	Leu
218		50					55				60					
220	Val	Glu	Pro	Ser	Lys	Gln	Arg	Ile	Gly	Ala	Leu	Phe	Met	His	Ser	Lys
221	65					70					75					80
223	His	Phe	Phe	Lys	Leu	Tyr	Glu	Pro	Trp	Ser	Ile	Gly	Gln	Asn	Ala	Ala
224				85					90					95		
226	Ile	Glu	Phe	Leu	Ser	Ser	Thr	Leu	His	Lys	Met	Arg	Val	Asp	Glu	Ser
227				100					105					110		
229	Gln	Arg	Phe	Ile	Ile	Asn	Asn	Lys	Leu	Glu	Leu	Gln	Ser	Phe	Leu	Tyr
230			115					120					125			
232	Lys	Pro	Val	Gln	Arg	Leu	Cys	Arg	Tyr	Pro	Leu	Leu	Val	Lys	Glu	Leu
233		130					135					140				
235	Leu	Ala	Glu	Ser	Ser	Asp	Asp	Asn	Asn	Thr	Lys	Glu	Leu	Glu	Ala	Ala
236	145					150					155					160
238	Leu	Asp	Ile	Ser	Lys	Asn	Ile	Ala	Arg	Ser	Ile	Asn	Glu	Asn	Gln	Arg
239				165					170					175		
241	Arg	Thr	Glu	Asn	His	Gln	Val	Val	Lys	Lys	Leu	Tyr	Gly	Arg	Val	Val
242				180					185					190		
244	Asn	Trp	Lys	Gly	Tyr	Arg	Ile	Ser	Lys	Phe	Gly	Glu	Leu	Leu	Tyr	Phe
245			195					200					205			
247	Asp	Lys	Val	Phe	Ile	Ser	Thr	Thr	Asn	Ser	Ser	Ser	Glu	Pro	Glu	Arg
248		210					215						220			
250	Glu	Phe	Glu	Val	Tyr	Leu	Phe	Glu	Lys	Ile	Ile	Ile	Leu	Phe	Ser	Glu
251	225					230					235					240
253	Val	Val	Thr	Lys	Lys	Ser	Ala	Ser	Ser	Leu	Ile	Leu	Lys	Lys	Lys	Ser
254				245						250					255	
256	Ser	Thr	Ser	Ala	Ser	Ile	Ser	Ala	Ser	Asn	Ile	Thr	Asp	Asn	Asn	Gly
257				260						265				270		
259	Ser	Pro	His	Ser	Tyr	His	Lys	Arg	His	Ser	Asn	Ser	Ser	Ser	Ser	Ser
260			275				280						285			
262	Asn	Asn	Ile	His	Leu	Ser	Ser	Ser	Ser	Ala	Ala	Ala	Ile	Ile	His	Ser
263		290					295						300			
265	Ser	Thr	Asn	Ser	Ser	Asp	Asn	Asn	Ser	Asn	Asn	Ser	Ser	Ser	Ser	Ser
266	305					310					315					320
268	Leu	Phe	Lys	Leu	Ser	Ala	Asn	Glu	Pro	Lys	Leu	Asp	Leu	Arg	Gly	Arg
269				325						330					335	
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272				340					345					350		
274	Leu	Asn	Ile	Thr	Trp	Glu	Ser	Ile	Lys	Glu	Gln	Gly	Asn	Phe	Leu	Leu

See page 2

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/054,399

DATE: 09/16/2002
 TIME: 10:54:29

Input Set : A:\pto_ms.txt
 Output Set: N:\CRF4\09162002\J054399.raw

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295 gccagacaag agagtaaaca gcttcatgct caaataaata aagcaaaaca caagatacaa 180
296 gatgcaagct tattccagat ggccaacaaa gttacttcgt tgaccaaaaa taagatcaac 240
297 ttaaagccaa atatcgtgtt gaaaggccat aataataaaa tctcagattt tcggtggagt 300
298 cgagattcaa aacgtatttt gagtgcaagt caagatggct ttatgcttat atgggacagt 360
299 gcttcagggt taaaacagaa cgctattcca ttagattctc aatgggttct ttctgcgct 420
300 atttcgccat cgagtacttt ggtagcaagc gcaggattaa acaataactg taccatttat 480
301 agagtttcga aagaaaacag agtagcgcaa aacgttgcgt caattttcaa aggacatact 540
302 tgctatatatt ctgacattga atttacagat aacgcacata tattgacagc aagtgggat 600
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311 agattgatgt actcatgcta tacagacatt gttgtgtgtg tgtgggatgt attaaaagga 1140
312 gagattgttg gaaaattaga aggtcatggt ggcagagtca ctggtgtgcg ctcgagtcca 1200
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329 20          25          30
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332 35          40          45
334 His Ala Gln Ile Asn Lys Ala Lys His Lys Ile Gln Asp Ala Ser Leu
335 50          55          60

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/054,399

DATE: 09/16/2002
TIME: 10:54:30

Input Set : A:\pto_ms.txt
Output Set: N:\CRF4\09162002\J054399.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:32; N Pos. 12

Seq#:33; N Pos. 13

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/054,399

DATE: 09/16/2002

TIME: 10:54:30

Input Set : A:\pto_ms.txt

Output Set: N:\CRF4\09162002\J054399.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1799 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:1816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:1843 M:283 W: Missing Blank Line separator, <400> field identifier

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/054,399

DATE: 09/10/2002

TIME: 08:57:09

Input Set : A:\DYOU13.1A2CP1 Seq listing.txt

Output Set: N:\CRF3\09102002\J054399.raw

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L:1799 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:1816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:1841 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:1841 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:1841 M:282 W: Numeric Field Identifier Missing, <213> is required.
L:1841 M:200 E: Mandatory Header Field missing, <400> is required.
L:39 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (37) Counted (36)

Does Not Comply
Corrected Diskette Needed



OIPE

RAW SEQUENCE LISTING

DATE: 09/10/2002

PATENT APPLICATION: US/10/054,399

TIME: 08:57:08

Input Set : A:\DYOU13.1A2CP1 Seq listing.txt

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2 <110> APPLICANT: Arkowitz, Robert A
3 Nern, Peter MA
5 <120> TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND PROTEIN SEQUENCES
7 <130> FILE REFERENCE: DYU13.1A2CP1
9 <140> CURRENT APPLICATION NUMBER: 10/054399
C--> 10 <141> CURRENT FILING DATE: 2002-08-30
12 <150> PRIOR APPLICATION NUMBER: 09/168,474
13 <151> PRIOR FILING DATE: 1998-10-08
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16 <151> PRIOR FILING DATE: 1997-10-15
18 <150> PRIOR APPLICATION NUMBER: 09/529,106
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22 <151> PRIOR FILING DATE: 2000-12-07
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33 <150> PRIOR APPLICATION NUMBER: 9721357.3
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36 <150> PRIOR APPLICATION NUMBER: 9721358.1
37 <151> PRIOR FILING DATE: 1997-10-08
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41 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

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1842 1 5 10 15
1844 Lys Ser Val

*need to insert line breaks
between numeric identifiers.*